

## **Kerry County Council**



**Waste Licence Ref No. W0225-01**

### **REPORT TITLE**

**Dingle Civic Amenity Site  
Flemingstown, Lispole  
An Daingean  
Co. Kerry**

**Annual Environmental Report**

**Reporting Period:**

**January 2011 – December 2011**

*Prepared By:  
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*June 2012*

## **Table of Contents**

<b><u>Section</u></b>	<b><u>Page</u></b>
1 Introduction.....	4
2 Reporting Period.....	4
3 Waste Activities Carried out at the facility .....	4
4 Quantity and Composition of Waste Received, Disposed and Recovered in 2011.....	6
5 Summary of Procedures Developed by the Licensee.....	7
6 Review of Nuisance Controls.....	8
7 Emissions from the Facility.....	8
8 Resource Consumption Summary.....	9
9 Reported Incidents and Complaints.....	9
10 Schedule of Environmental Objectives and Targets for forthcoming year.....	10
11 Report on Progress towards achievement of the 2010 Environmental Objectives and Targets.....	11
12 Noise Monitoring Report Summary.....	11
13 Ambient Monitoring Summary.....	12
14 Energy Efficiency Audit Report Summary.....	12
15 Development/Infrastructural Works Summary.....	12
16 Proposed Development/Infrastructural Works for coming year.....	12
17 Report on Financial Provision .....	13
18 Management and Staffing Structure of the Facility.....	15
19 Programme for Public Information.....	16

Appendix I : Waste Collected at Dingle Civic Amenity Site and  
Recovered/Recycled offsite during reporting period.....17

Appendix II : Results of Foul and Surface Water Monitoring.....21

Appendix III : Energy Efficiency Audit Report .....26

Appendix IV: AER/PRTR Return 2011.....31

## **1.0 Introduction**

Kerry County Council operates a civic amenity facility located in the townland of Flemingstown, Lispole adjacent to the N86 Dingle to Tralee road and approximately 5 km east of the town of Dingle, Co. Kerry. The site is accessed via the county road L-8052.

The principal activities at the facility include the recycling or reclamation of inorganic materials including mixed dry recyclables, C & D rubble, metals, glass, steel and aluminium cans, car batteries, dry cell batteries, fluorescent tubes, domestic hazardous waste, cardboard, plastic bottles, textiles, wood, WEEE and newspapers. Small quantities of organic waste (food and garden) are also collected.

Mixed municipal waste is also accepted on site and compacted into 30 cubic metre closed containers for subsequent transfer and disposal at North Kerry Landfill in Muingnaminane, Tralee.

This Annual Environment Report is prepared in accordance with Condition 11.8 and Schedule F of Waste Licence W0225-01 issued by the Environmental Protection Agency (EPA).

## **2.0 Reporting Period**

The reporting period for this Annual Environmental Report is 1<sup>st</sup> January 2011 – 31<sup>st</sup> December 2011.

## **3.0 Waste Activities Carried out at the Facility**

Waste disposal activities carried out at Dingle Civic Amenity Site are in accordance with Part 1 of Waste Licence W0225-01 which outlines the waste disposal activities licensed in accordance with the Third Schedule of the Waste Management Acts 1996 to 2005.

Licensed activities include:

- Class 12** Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
- Class 13** Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.

Waste recovery activities carried out at Dingle Civic Amenity Site are in accordance with Part 1 of Waste Licence W0225-01 which outlines the waste recovery activities licensed in accordance with the Fourth Schedule of the Waste Management Acts 1996 to 2005. Licensed activities include:

- Class 2** Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
- Class 3** Recycling or reclamation of metals and metal compounds.
- Class 4** Recycling or reclamation of other inorganic materials.
- Class 13** Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

#### **4.0 Quantity and Composition of Waste Received, Disposed and Recovered: 1<sup>st</sup> Jan – 31<sup>st</sup> Dec 2011**

Waste collected at Dingle Civic Amenity Site for disposal during the reporting year (2011) decreased by 5% compared to the previous year (2010). This was primarily due to the downturn in the economy as well as the pricing structure at the facility. The quantity of commercial and industrial waste delivered to the facility has significantly reduced.

The weight of the waste accepted into Dingle Civic Amenity Site for disposal for the reporting period was 218.52 Tonnes. This comprises of the following breakdown:

<i><b>Waste for Disposal</b></i>	<i><b>Tonnes</b></i>		
	<i><b>2009</b></i>	<i><b>2010</b></i>	<i><b>2011</b></i>
Commercial & Industrial	0.04	24.07	16.76
Road Sweepings & Graveyard Waste	0	0.46	0.16
Flytipping	8.4	7.54	7.08
Public Domestic	236.72	198.37	194.52
<b>Total for Disposal</b>	<b>245.16</b>	<b>230.44</b>	<b>218.52</b>

**Table 1 Waste Stream Break down for reporting Period.**

Overall the quantities of waste sent for recycling decreased by 5% in comparison to 2010, particularly for metals, glass, dry recyclables, cardboard and WEEE.

Waste sent for recycling during the reporting period compared with previous years is outlined in Table 2 below.

<b>Waste for Recycling &amp; Recovery</b>	<b>Tonnages 2009</b>	<b>Tonnages 2010</b>	<b>Tonnages 2011</b>
Metals	24.72	40.24	21.50
Glass	12.2	25.02	11.99
Aluminium	0.25	0.29	0.3
Batteries	1.9	0	1.12
Newspapers	11.4	21.50	31.74
Cardboard	12.94	16.32	13.98
Fluorescent Tubes	0	0	0
Domestic Hazardous Waste	0	0.32	2.14
Plastic Bottles	1.1	5.38	5.38
Waste Engine Oil	0.5	0	0
WEEE	46.992	39.08	35.12
Cooking Oil	0.15	0.34	0
Dry Recyclables	20.7 <sup>1</sup>	26.96 <sup>1</sup>	25.78 <sup>1</sup>
Organics (food)	0	0	0
Textiles	5.9	4.36	4.88
Wood	41.5	23.38	24.18
Flat Glass	4.54	0	0
Green Waste	8.0	4.3	14.94
C & D rubble	14.2	5.84	9.20
<b>Total for Recycling/Recovery</b>	<b>206.99</b>	<b>213.33</b>	<b>202.25</b>

<sup>1</sup>Dry recyclables collected in eco sense bags

**Table 2 Waste collected on site and recovered/recycled off site during the reporting period.**

Appendix I contains a breakdown of waste by classification collected on site and recovered/recycled off site during the reporting period.

## **5 Summary of Procedures Developed by the Licensee**

The following procedures were developed during the reporting period:

- Revised Operational Procedures for Facility Manager
- Revised Health & Safety Procedures

## **6 Review of Nuisance Controls**

Regular inspections of the facility and its environs are carried out by the facility manager and appropriate bait is used to control mice and rats on site. During 2011 no issues arose with mice or rats at the facility.

Occasional issues arose with litter on the approach roads which were cleaned up by the facility manager.

The nuisance controls which are currently in place are appropriate for the operation of this facility.

## **7 Emissions from the Facility**

### **a) Foul Water Emissions**

A Wastewater Treatment Unit and reed bed is installed at the facility to treat all foul waters from the site. The Wastewater Treatment Unit was serviced during 2011. Foul water is treated in the Wastewater Treatment Unit and reed bed before discharging to the surface water drain.

The foul water emission results are attached in Appendix II. The results show an effluent of acceptable quality during the reporting period.

### **b) Surface Water Emissions**

Surface water runoff from the site roads and uncontaminated surfaces discharges to the surface water drain via a Class 1 full retention interceptor. Visual inspections indicated no issues with surface water emissions from the facility but occasional discolouration and sedimentation in the stream was noted upstream of the discharge point.

The surface water monitoring results are attached in Appendix II. No significant impact was noted to date.

### **c) Waste from Silt Traps and Interceptors**

No silt/sludge or wastewater was removed from the oil interceptor or foul waste water treatment unit during the reporting period.



## **8.0 Resource Consumption Summary**

The following is the energy consumption for Dingle Civic Amenity Site for the reporting period.

### **8.1 Diesel**

The diesel usage for Dingle Civic Amenity Site for the reporting period 2011 was 200 litres. The primary usage of diesel is for the forklift and roadsweeper on site.

### **8.2 Electricity**

The electricity usage for the facility during the reporting period was 8,494 kilowatt hours.

Power is required for the office computer and lighting, weighbridge, waste compactors, storage heating, cardboard baler, wastewater treatment unit, CCTV cameras and public lighting on the site.

### **8.3 Water**

Water supply to the site is via a connection to the mains water supply. Water usage for the facility during the reporting period was 426,000 litres, a significant proportion of which was due to a leak in the water mains which was rectified in 2011. Water is mainly used on site for power washing yards, office toilets and sinks, public toilets, washing compactor area and washing of trucks and bins when required.

No surface water or ground water is abstracted.

## **9 Reported Incidents and Complaints**

No incidences or complaints were reported in relation to the operation of the facility during the reporting period.

## **10 Schedule of Environmental Objectives and Targets for the Forthcoming Year**

<b><i>Target Area</i></b>	<b><i>Objective</i></b>	<b><i>Works Required</i></b>
<i>Surface Water Emissions</i>	Keep Surface Water Emissions within agreed limits	Regular inspection of surface water drains. Regular monitoring of results from Surface Water Monitoring Points.
<i>Litter – On public roads to facility</i>	Reduction in the number of bags of waste/litter lost from trailers on the way to the facility	Regular inspections and clean up of approach roads. Quick response to clean up any reported waste on the approach roads to the facility
<i>Energy Resources</i>	Reduce the quantity of diesel and electricity used on site	Change electricity meter to avail of night rate tariffs. Continue monitoring of EPI. All unneeded office equipment to be fully shut down at night. Reduce site light run schedule by 1/2 hour per day.
<i>Waste Records</i>	Improve waste records & reduce paperwork	Introduction of new computer system on site to record waste transactions with connection to KCC network

## **11 Report on Progress towards achievement of the 2010 Environmental Objectives and Targets**

<b><i>Objective</i></b>	<b><i>Target</i></b>	<b><i>Progress</i></b>
<i>Keep Surface Water Emissions within limits</i>	Regular monitoring & Inspections	Ongoing
<i>Reduction in Litter on Public Roads to facility</i>	Regular inspection & clean up of roads	Decreasing & Ongoing
<i>Reduction in use of Energy Resources</i>	Reduce quantity of diesel and electricity used on site	Decreasing & Ongoing
<i>Increase collection of Cardboard and Textiles</i>	Increase promotion & marketing	Ongoing

## **12 Noise Monitoring Report Summary**

Noise monitoring was carried out at the facility by Southern Scientific Services on the 22<sup>nd</sup> December, 2011. The noise monitoring report is available at the facility and was forwarded separately to the EPA inspector. The noise limit prescribed in the Waste Licence is being met at noise sensitive location N2. The measured noise levels at N1, N3 & N4 exceeded the limit however the elevated noise levels are attributed to traffic noise levels on the public road and not to activities within the transfer station. The noise report concludes that the activities at the waste transfer station are not adversely impacting on the noise environment at the nearest noise sensitive locations. The waste transfer station does not generate noise at night-time when the facility is closed. There were no issues with noise during 2011 and no complaints were received in relation to noise at the facility. The results over the years have shown that the facility caused no noise nuisance to neighbours.

### **13 Ambient Monitoring Summary**

Dust monitoring was carried out during August/September 2011 in accordance with the licence conditions. The dust monitoring results were within the ELVs set down in the licence except for location D1. However this sample contained a significant amount of organic matter and the inorganic content was similar to location D3. I can confirm that no significant dust was created as a result of operations at the facility. There were no issues with dust during 2011 and no complaints were received in relation to dust at the facility.

### **14 Energy Efficiency Audit Report Summary**

An energy efficiency audit was carried out for Dingle Civic Amenity Site by Kerry County Councils Energy Office and the report is attached in Appendix III.

The main recommendations for energy savings are:

- 1) Change electricity meter to avail of night rate tariffs for storage heating purposes
- 2) Continue monitoring of Energy Performance Indicator (EPI) trend and daily consumption trend
- 3) All unneeded office equipment to be fully shut down at night where possible
- 4) Reduce site light run schedule by 1/2 hour per day where possible.

### **15 Development/Infrastructural Works Summary**

No development works were carried out in 2011.

### **16 Proposed Development/Infrastructural Works for coming Year**

No development works are proposed at the facility for 2011

## 17 Report on Financial Provision

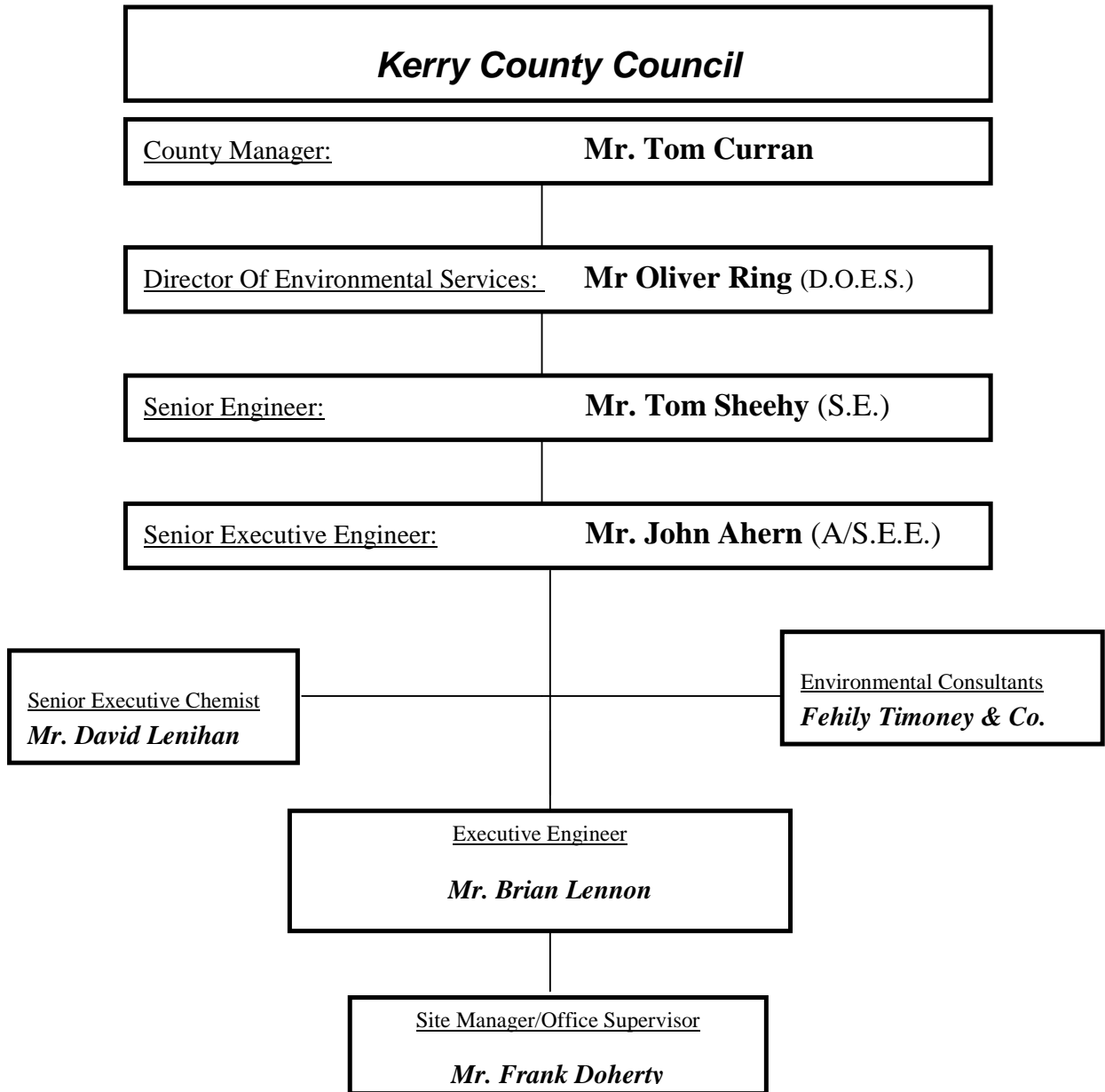
### a) Statement of Costs for Waste Operations at Facility

<b>Waste 2011</b>		
<b>Accelem</b>	<b>Accelem(T)</b>	<b>Total Charge €</b>
60030	Wages	21,491.26
60040	Salaries	9,450.79
60100	ER PRSI	3,865.08
60200	Overtime	2,567.61
60300	Arrears	50.19
60400	Sick Pay	2,035.16
60500	Annual Leave	2,578.45
60510	Bank Holiday Leave	390.30
60600	Travel/Subsistence	2,344.40
60700	Eating on site allowance	5.70
61990	Other Allowances	8.49
65500	Minor Contracts- Trade Services & other works	5,904.49
67500	Non-Capital Equip Purchase - Computers	2,368.23
69000	Hire (Ext) - Plant/Transport/Machinery & Equipment	588.00
69260	Repairs & Maint - Other Equip	256.20
69400	Transfers from Machinery Yard	2,629.00
70000	Materials	1,457.84
70990	Issues from Stores	1,228.68
71000	Insurance	156.49
73400	Staff Travelling & Subsistence Expenses	2,180.44
76000	Communication Expenses	452.91
78000	Training	44.63
79900	Consultancy/Professional Fees and Expenses	260.75
80000	Advertising	1,074.00
81000	Printing & Office Consumables	427.77
82100	Statutory Contributions to Other Bodies	6,768.48
85100	Rates & Other LA Charges	79.71
86000	Energy	1,774.08
99050	Refunds	40.38
	<b>TOTAL</b>	<b>72,479.51</b>

**b) Statement of Costs for Recycling Operations at Facility**

<b>Recycling 2011</b>		
<b>Accelem</b>	<b>Accelem(T)</b>	<b>Total Charge €</b>
60030	Wages	3,470.87
60040	Salaries	2,854.62
60100	ER PRSI	739.91
60300	Arrears	15.78
60400	Sick Pay	401.01
60500	Annual Leave	621.68
60510	Bank Holiday Leave	130.25
60600	Travel/Subsistence	370.17
65500	Minor Contracts- Trade Services & other works	6,004.00
67500	Non-Capital Equip Purchase - Computers	620.00
69260	Repairs & Maint - Other Equip	109.80
70000	Materials	430.98
70990	Issues from Stores	731.89
70991	Returns to Stores	-11.91
73400	Staff Travelling & Subsistence Expenses	763.75
76000	Communication Expenses	101.98
79900	Consultancy/Professional Fees and Expenses	111.75
85100	Rates & Other LA Charges	13.48
99050	Refunds	10.00
	<b>TOTAL</b>	<b>17,490.01</b>

**18 Management and Staffing Structure at Facility 2011**



## **19 Programme of Public Information**

The following files are available for inspection on site by members of the public:

- AER of previous reporting years
- All correspondence with the Agency
- Surface Water Monitoring Results
- Incident/Complaints Register
- Tonnage of waste accepted on site
- Characterisation of waste accepted on site
- Operational Procedure Manual
- Waste Acceptance Procedure
- Information on Recycling Initiatives e.g. leaflets.
- Environmental Management System.



**Appendix I - Waste Collected at Dingle Civic Amenity Site and Recovered/Recycled offsite during reporting period**

Material type	Suggested EWC Codes	Dingle Civic Amenity	
		Household Waste	Non-household Waste
<b>(If you must depart from this list, please provide details on a separate sheet)</b>	<b>(overwrite as appropriate)</b>		
mixed residual waste	20 03 01		
organic waste (food and garden) Total	20 01 08; 20 02 01	14.94	-
<i>if segregated, provide specific information on food and garden waste</i>			
<i>food</i>	<i>20 01 08</i>	-	
<i>garden</i>	<i>20 02 01</i>	<i>14.94</i>	
mixed dry recyclables (eco-bags)	15 01 06; 20 03 01	25.78	
cardboard, newspaper and other paper (Total)	15 01 01; 20 01 01	45.72	-
<i>if segregated, provide the breakdown of cardboard and paper in the rows below</i>			
<i>*cardboard packaging</i>	<i>15 01 01</i>	<i>13.98</i>	
<i>cardboard non-packaging</i>	<i>20 01 01</i>	-	
<i>paper packaging</i>	<i>15 01 01</i>	-	
<i>paper non-packaging</i>	<i>20 01 01</i>		

		-	
<i>*newspaper and magazines</i>	<i>20 01 01</i>	<i>31.74</i>	
glass (Total)	15 01 07; 20 01 02	11.99	-
<i>if segregated, provide the breakdown of glass in the next two rows</i>			
<i>glass packaging(bottles)</i>	<i>15 01 07</i>	<i>11.99</i>	
<i>glass non-packaging(sheet)</i>	<i>20 01 02</i>	-	
metals (Total)	15 01 04; 20 01 40	21.80	-
<i>if segregated, provide the breakdown of metals in the next four rows</i>			
<i>aluminium cans (packaging)</i>	<i>15 01 04</i>	<i>0.30</i>	
<i>steel cans (packaging)</i>	<i>15 01 04</i>	<i>0.98</i>	
<i>other metal packaging</i>	<i>15 01 04</i>	-	
<i>other metals (non-packaging)(scrap)</i>	<i>20 01 40</i>	<i>20.52</i>	
plastic (Total)	15 01 02; 20 01 39	5.38	-
<i>if segregated, provide the breakdown of plastic waste in the next two rows</i>			
<i>plastic packaging(bottles)</i>	<i>15 01 02</i>	<i>5.38</i>	
<i>plastic non-packaging</i>	<i>20 01 39</i>	-	
textiles (Total)	15 01 09; 20 01 11	4.88	-
<i>if segregated, provide the breakdown of textiles in the next two rows</i>			
<i>textiles, packaging</i>	<i>15 01 09</i>		

		-	
textiles, non-packaging	20 01 11	4.88	
wood (Total)	15 01 03; 20 01 38; 20 01 37*	24.18	-
<i>if segregated, provide the breakdown of wood waste in the next four rows</i>			
wood packaging	15 01 03	-	
wood non-packaging	20 01 38	-	
mixed, uncontaminated wood packaging and non-packaging	15 01 03; 20 01 38	24.18	
wood, treated, hazardous	20 01 37*	-	
miscellaneous hazardous waste (Total)		2.63	-
<i>small batteries</i>	<i>20 01 34; 20 01 33*</i>	<i>1.12</i>	
<i>lead acid batteries (Car Batteries)</i>	<i>16 06 01*</i>	-	
<i>Ni-Cd batteries and Accumulators</i>	<i>16 06 02*</i>	-	
<i>waste mineral oils (lubrication, vehicle, machine etc.)</i>	<i>13 xx xx</i>	-	
<i>oil filters (vehicles)</i>		-	
<i>oil containers (mineral oil) - plastic + metal</i>		-	
<i>waste cooking or vegetable oils</i>	<i>20 01 25</i>	-	
<i>aerosols</i>	<i>20 03 99</i>	<i>0.18</i>	
<i>waste paint and varnish (including containers)</i>		<i>1.33</i>	
WEEE (Total)	various		

		35.118	-
<i>if segregated, provide the breakdown of WEEE in the next five rows</i>			
<i>fridges and freezers</i>	<i>20 01 35*; 20 01 36; 16 02 11*; 16 02 14</i>	<i>3.573</i>	
<i>white goods (electrical and electronic)</i>	<i>20 01 36; 16 02 14</i>	<i>9.250</i>	
<i>televisions and PC monitors</i>	<i>20 01 35*; 16 02 13*;</i>	<i>8.573</i>	
<i>ICT- Information and Communications Technology Equipment, e.g Includes Computer Equipment</i>	<i>16 02 14</i>	<i>-</i>	
<i>other electrical and electronic equipment, eg. White Goods incl. Washing Machines, Dryers etc, TVs, PCs, Small Items incl. toasters Radios</i>	<i>20 01 36; 20 01 35*</i>	<i>13.722</i>	
<i>Gas Cylinders</i>		<i>-</i>	
<i>C &amp; D Rubble</i>		<i>9.20</i>	
<i>fluorescent tubes and lighting</i>	<i>20 01 21*</i>	<i>-</i>	
<i>Tyres</i>	<i>16 01 03</i>	<i>-</i>	
<i>Ink Cartridges</i>	<i>08 01 11</i>	<i>0.63</i>	
<i>bulky waste (provide summary below of waste types), e.g. Furniture, Mattresses, Mixed Bulky Waste</i>	<i>20 03 07</i>	<i>-</i>	

## **Appendix II - Results of Foul and Surface Water Monitoring**

**Attn: Brian Lennon EE Waste Management                      Tuesday, 1<sup>st</sup> May 2012**  
**Re:   LABORATORY Results for An Daingean Transfer station: Jan 2011 to Jan 2012**

Enclosed are results (2009 – date) of monitoring of designated Surface water points and discharge point samples as set out in EPA licence conditions for *AN DAINGEAN Transfer station* The latest results are for Jan – August 2011.

Refer also to *app 1: details of sample locations*

No significant impact was noted to date from four set of samples taken at this site.

Note that upstream site S5 is always slightly more polluted than downstream site S1.

This indicates that there is a pollution source requiring investigation upstream of transfer station.

As can be seen from results of discharge point from Transfer station an effluent of acceptable quality is indicated.

As a result of some refurbishment work in late 2011, the monitoring regime for 2012 will be slightly different i.e. only off site samples S1 and S5 as well as new sampling station SW1 (discharge pipe into drain containing surface waters from site) and of course outlet from transfer station FE1. S2, S3 and S4 will no longer be sampled as part of compliance monitoring.

*David Lenihan MSc*

**Senior Executive Chemist**

Appendix1: Details Sampling points referred to in report				
<u>Location</u>	<u>comments</u>	<u>old or alternative name</u>	<u>Location Easting</u>	<u>Location Northing</u>
<b><u>Surface water</u></b>				
<b><u>Off site sampling pts</u></b>				
Si	d/s of outlet from transfer station (FE1)		48217	100987
S5	Drain U/s of Outlet from transfer station (FE1)		48203	100987
Sw1	Surface water drain from transfer station entering drain		48219.3	100982.1
<b><u>On site sampling pts</u></b>				
S2	Sampling station in surface water drain on site (discontinued in 2012)		48200	101022
S3	Sampling station in surface water drain on site (discontinued in 2012)		48231	101029
S4	Sampling station in surface water drain on site (discontinued in 2012)		48178	101018
<b><u>Leachate</u></b>				
<b><u>Outlet from treatment plant</u></b>				
FE 1	Effluent from transfer station		48216.9	100984.1

Table 1 Foul Water Monitoring Results

Landfill	Location	Sample Reference	Sample Date	Sample Time	Ammonium (NH4)	pH	BOD (O2)	Conductivity @ 20 oC	Chemical Oxygen Demand (O2)	Suspended Solids	Temperature	Oils/Fats & Grease	Oils/Fats & Grease	Odour
					mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	Degrees C	mg/l	descriptive	Descriptive
Dingle	Leachate Sampling Point	2009/1298	05-Mar-09	14:35	0.02	9.4	1.2	166	17	8	7.6	< 2	no visual evidence	nd
Dingle	Outlet of reed bed	2010/4718	12-Oct-10	12:05	0.26	6.9	2.3	1311	43	103	13.9		no visual evidence	None
Dingle	Outlet of reed bed	2011/1713	07-Apr-11	13:55	<	8.3	< 1	518	22		12.1		no visual evidence	ND
Dingle	Outlet of reed bed	2011/5139	16-Nov-11	12:20	0.03	7.2	< 1	429	18	1	11.3		no visual evidence	clear

Table 2 Surface Water Monitoring Results

Landfill	Location	Eastings	Northings	Sample Reference	Sample Date	Sample Time	Ammonium (NH4)	pH	BOD (O2)	Conductivity @ 20 oC	Chemical Oxygen Demand (O2)	Chloride (Cl)	Dissolved Oxygen (O2)	Suspended Solids	Temperature
							mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C
Dingle	S2	48200	101022	2009/5147	01-Oct-09	15:10	0.26	7.7	1.1	364	< 10	34	8.5	42	15.8
Dingle	S2	48200	101022	2010/1740	22-Apr-10	12:55	0.04	6.8	1.2	319	29	33	6.9	24	11.8
Dingle	S2	48200	101022	2011/1708	07-Apr-11	13:05	0.06	7.8	< 1	365	16		9.9		12.7
Dingle	S2	48200	101022	2011/4667	18-Oct-11	12:37	0.24	7.3	1.7	367	23	35.7	7.2	37	14
Dingle	S3	48231	101029	2009/5148	01-Oct-09	15:20	0.46	8.1	1.5	284	33	23	8.8	58	15.4
Dingle	S3	48231	101029	2010/1741	22-Apr-10	12:45	2.66	6.4	4.8	814	42	37.5	9.1	43	14.6
Dingle	S3	48231	101029	2010/4716	12-Oct-10	11:40	0.09	7.7	11.7	411	348	29	8	813	14.8
Dingle	S3	48231	101029	2011/1709	07-Apr-11	12:50	0.08	7.9	2.2	719		36	9.6		12.8
Dingle	S3	48231	101029	2011/4668	18-Oct-11	12:48	0.06	7.4	< 1	88	< 10	22.2	10.5	2	12.9



Dingle	S4	48178	101018	2009/5149	01-Oct-09	15:35	0.14	8.1	2.4	386	42	33	2.4	16	13
Dingle	S4	48178	101018	2010/1742	22-Apr-10	13:00	0.04	6.9	1.7	189	52	30	9.8	28	13.3
Dingle	S4	48178	101018	2011/1710	07-Apr-11	13:20				<i>not sufficient volume for sample</i>					
Dingle	S4	48178	101018	2011/4669	18-Oct-11	12:57				<i>not sufficient volume for sample</i>					
Dingle	S5	48203	100987	2009/5150	01-Oct-09	16:00	0.3	6.8	3.1	354	33	34	2.8	12	13
Dingle	S5	48203	100987	2010/1743	22-Apr-10	13:40	0.17	6.8	1.1	299	27	32.5	7.1	4	10.5
Dingle	S5	48203	100987	2010/4717	12-Oct-10	12:30	0.18	6.8	3.2	320	118	27	7	160	13.1
Dingle	S5	48203	100987	2011/1711	07-Apr-11	14:10	0.32	6.9	5.3	208	68	27	9.4	17	14.2
Dingle	S5	48203	100987	2011/4670	18-Oct-11	13:05	0.12	6.6	21	318	969	39.8	3.5	2044	10.3
Dingle	Stream sample d/s of pipe			2009/1301	05-Mar-09	14:52	0.03	7.5	1.1	196	25	29	10.6	4	8.4
Dingle	Stream sample u/s of pipe			2009/1300	05-Mar-09	14:45	<	7	1.2	141	42	31	10.4	< 1	7.1
Dingle	Surface Water Sampling Point S1	48217	100987	2009/5146	01-Oct-09	16:05	0.22	8.9	< 1	302	11	33	8.2	4	15
Dingle	Surface Water Sampling Point S1	48217	100987	2010/1739	22-Apr-10	13:35	0.06	7.5	< 1	356	15	34.5	9.4	4	12.6
Dingle	Surface Water Sampling Point S1	48217	100987	2010/4715	12-Oct-10	12:20	0.11	8.5	< 1	341	14	38.5	8	4	14.7
Dingle	Surface Water Sampling Point S1	48217	100987	2011/1707	07-Apr-11	13:45	0.03	7.3	< 1	399	15	57.5	8.1	< 1	13.2
Dingle	Surface Water Sampling Point S1	48217	100987	2011/1827	13-Apr-11	15:00	0.02	7.1	< 1	258	32	35	8.4	4	13.2
Dingle	Surface Water Sampling Point S1	48217	100987	2011/4666	18-Oct-11	13:25	0.06	7.9	< 1	295	25	38.9	10.6	2	11.5

## **Appendix III - Energy Efficiency Audit Report**

### **Energy Audit Report**

for

**Dingle Civic Amenity Centre  
Flemingstown, Lispolse**

<b>Site:</b>	Dingle Civic Amenity Centre		
<b>Date of Site Visit:</b>	08/06/2012		
<b>Present:</b>	Frank Doherty	KCC Waste Transfer Station	(066 9151566)
	Adam Stack	KCC Energy Office	(066 7183871)
<b>Report Revision:</b>	Update Report		
<b>Report Compiled:</b>	08/06/2012		
<b>Site MPRN:</b>	10304070581		

## Table of Contents

1.	Table of Contents .....	27
2.	Introduction .....	27
3.	Site Details .....	27
3.1	Principal Energy consumers: .....	27
3.2	Opening Hours.....	27
3.3	Lighting .....	27
3.4	Hazards Shed .....	28
3.5	WEEE Shed.....	28
3.6	Main Compactors.....	28
3.7	Cardboard compactor .....	28
3.8	Office.....	28
3.9	Office bathroom.....	28
3.10	Public Toilets.....	29
3.11	Kitchen .....	29
3.12	Additional.....	29
4.	Energy Monitoring .....	29
5.	Electricity Consumption Trends.....	29
6.	Opportunity for Energy & Cost Saving .....	29

## Introduction

The site was visited on 08<sup>th</sup> June 2012 to assess energy consumption and energy management at the site. This updated report was compiled on 08<sup>th</sup> June 2012 by Kerry County Council Assistant Energy Officer. Electrical energy is consumed at the site by compactors, office equipment, office heating and site and office lighting.

## Site Details

### **Principal Energy consumers:**

- Moovmor Mixed Waste Compactors      x 2      / Auto switch off
- Cardboard Compactor                      x 1      / Auto switch off
- Street lamps                                      x 19
- Halogen Light Fittings                      x 6      / On – off manually switched x 5  
Motion control x 1 at entrance
- Storage Heaters                                x 2

### **Opening Hours**

Tuesday      11:00-19:00  
Thursday      09:00-17:00  
Saturday      09:00-17:00

## **Lighting**

### **Street Lighting**

Control:    Timer and Lux Level Control

Number of lights: 19  
 The time schedule for light operation is: Tuesday 16:00 – 20:00  
 Thursday 16:00 – 18:00  
 Saturday 16:00 – 18:00

### **Gate Light**

Control: Motion  
 Number of lights: 1

### **Hazards Shed**

Fluorescent light fittings: Qty 6  
 Model FPHFM5-49  
 On/Off switch control  
 Halogen lights at front of shed: Qty 2  
 On/Off switch control

### **WEEE Shed**

Flourescent light fittings: Qty 6  
 Halogen lights at front of shed: Qty 3

### **Main Compactors**

Moovmor Compactors for mixed waste.  
 1 x ~40W light at control panel. On/Off switch control  
 Auto off compacting cycle. Qty 2.  
 #1: Model: 3000 Static Compact  
 SN: SC30083631  
 Manufactured 2008  
 #2: Model: 3000 Static Compact  
 SN: SC30083634  
 Manufactured 2008

### **Cardboard compactor**

Switch on / auto off.  
 Manufacturer: KK Hydraulics (CWS Complex Rock Street Tralee)

### **Office**

Qty 1 x storage heater (2 cables connecting) Dimplex.  
 Qty 1 x Printer  
 Qty 1 x PC + Monitor  
 Qty 1 x Fax  
 Qty 1 x Photocopier  
 Qty 2 x Light Fittings On/Off switch control

### **Office bathroom**

Qty 1 x Elec Hand Drier (Vortice)  
 Qty 1 x Elec Shower Mira Sport  
 Qty 1 x light fitting in  
 o Shower

- Hall
- Toilet

### **Public Toilets**

Qty 2 x outside lights on/off switch control

- No motion / lux

Qty 1 x Undersink electric water heater in one toilet / this is connected to 2<sup>nd</sup> sink also

- 10L Atlantic Code 315211 PC10U 2000W 230V

Qty 1 x hand drier in each toilet

### **Kitchen**

Qty 1 x Fridge

Qty 1 x Microwave

Qty 1 x Undersink electric water heater

- 10L Atlantic Code 315211 PC10U 2000W 230V

Qty 1 x circular light fitting. On/off switch control

Qty 1 x storage heater (2 cables connecting) Dimplex

### **Additional**

CCTV: Qty 6 cameras installed 07/12/2010

## **Energy Monitoring**

As part of the Kerry Local Authority Energy Management Action Plan (Energy MAP), a log of the electricity consumption was set up in November 2009. Readings are taken from the on site electricity meter and logged on an excel spreadsheet. The monthly waste tonnage compacted at the site is also logged. Automatic kWh/day and kWh/Tonne trends are generated. Refer to Figure 1 and Figure 2. This serves to improve awareness of energy consumption on site.

## **Electricity Consumption Trends**

The daily average electricity consumed at the site from July 2011 to June 2012 was 19kWh/day. This has reduced from 29kWh/day for the same period the year before. The peak daily consumption during this period was 48kWh/day recorded in January. Night storage heating and site lighting account for increased electricity demand during winter months – refer to Figure 1.

## **Opportunity for Energy & Cost Saving**

**Change of meter:** Benefits of changing from 24 hour tariff to day / night tariff to be assessed.

**Monitoring of EPIs:** Continued monitoring of the Energy Performance Indicator (EPI) trend and daily energy consumption trending.

**Turning off office equipment:** All unneeded office equipment to be fully shut down at night time.

**Reduced site lighting time schedule:** Reduce site light run schedule by 0.5 hours/day where possible.

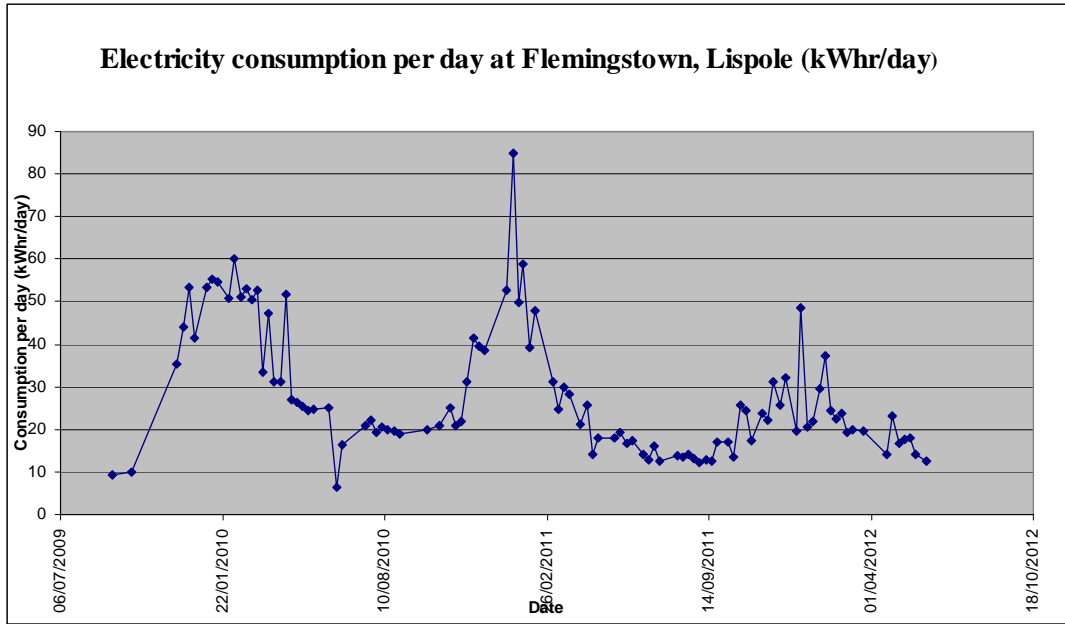


Figure 1: Electricity consumption trend.

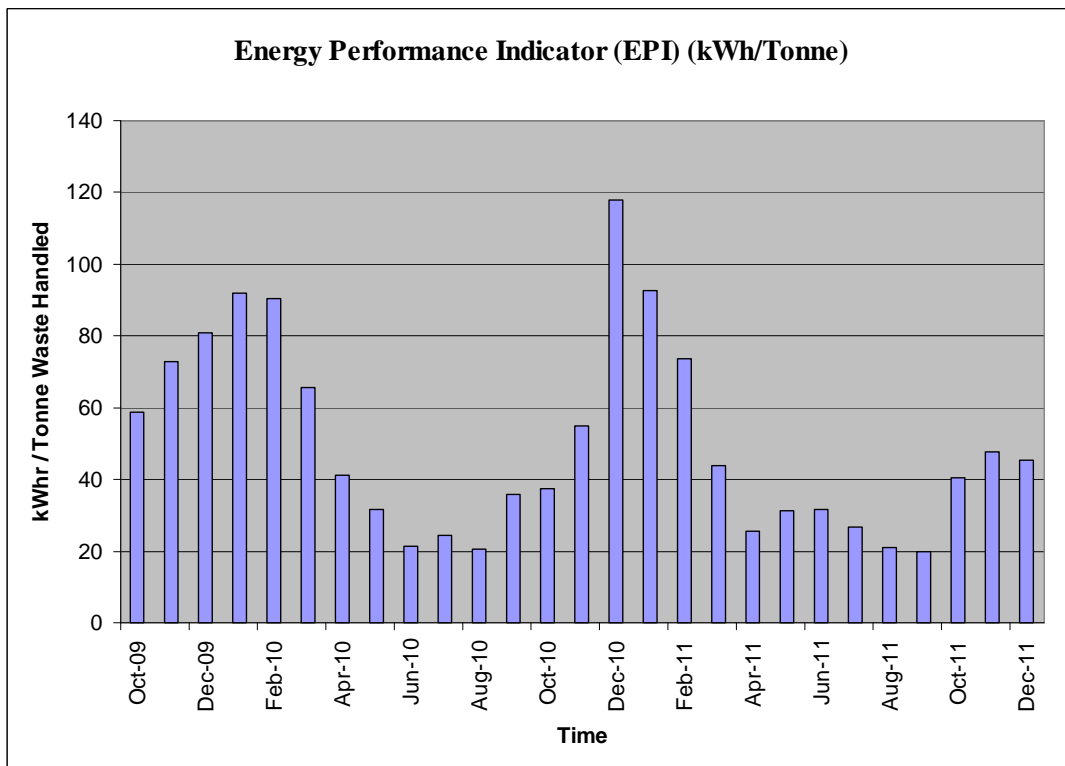


Figure 2: Energy Performance Indicator for Flemingstown Lisle

# Appendix IV - AER/PRTR Return 2011

Draw : Facility ID Activities AER Returns Workbook 29/02/2012 14:57



[PRTR] W0225 (Facility Name : Dingle Civic Amenity Centre) (Filename : W0225 AER PRTR 2011 V1.xls) (Print Year : 2011)

29/02/2012 14:57

[Guidance to completing the PRTR workbook](#)

## AER Returns Workbook

Page: 1 of 1

REFERENCE YEAR 2011	
<b>1. FACILITY IDENTIFICATION</b>	
Facility Company Name	Kerry County Council
Facility Name	Light 4000 Amenity Centre
PRTR Identification Number	W0225
License Number	W0225-01
Waste or IPPC Classes of Activity	
Ms class name	
3.10	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.15	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
4.10	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.2	Recovery or recalcination of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or recalcination of metals and metal compounds.
4.4	Recycling or recalcination of other inorganic materials.
Address 1	Planning/Env
Address 2	Liscala
Address 3	46, Youghan
Address 4	
	Firm
Country	Ireland
Coordinates of Location	-10.2161 52.1409
River Basin District	BSW
NACE Code	201
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Drian Lorton
AER Returns Contact Email Address	dlorton@kerrycc.ie
AER Returns Contact Position	Executive Officer
AER Returns Contact Telephone Number	069-7182000
AER Returns Contact Mobile Phone Number	087-4173353
AER Returns Contact Fax Number	069-7182001
Production Volume	0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
Use Feedback/Comments	
Web Address	
<b>2. PRTR CLASS ACTIVITIES</b>	
Activity Number	Activity Name
SO 1	General
SO 1	General
<b>3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)</b>	
Is it applicable?	No
Have you been granted an exemption?	No
If applicable which activity class applies (as per Schedule 2 of the regulations)?	
Is the reduction scheme compliance route being used?	

Sheet : Releases to Air

AER Returns Worksheet

28/03/2012 14:00

4.1 RELEASES TO AIR

[Click to download spreadsheet data](#)

[PRTM] W0225 (Facility Name) - Dingle Civic Amenity Centre (Facility) - W0225 AER PRTM 2011 01.xls (Report Year) (2011)

28/03/2012 14:00

SECTION A - SECTION SPECIFIC FUGITIVE POLLUTANTS									
POLUTANT	RELEASES TO AIR	METHOD			PROCESS OR UNIT OPERATIONS WITH SECTION NUMBER			QUANTITY	
		APPLIC	MEASURED CONCENTR	EMISSION FACTOR	SECTION/FACILITY	T (Tons) per Year	kg (kg) per Year	g (g) per Year	lb (lb) per Year
PM10 (Particulate Matter)	None	None	None	None	None	0.00	0.00	0.00	0.00
**Data is only recorded on the Pollutant Release Statement when used for the waste types									
SECTION B - WASHING WATER POLLUTANTS									
POLUTANT	RELEASES TO AIR	METHOD			PROCESS OR UNIT OPERATIONS WITH SECTION NUMBER			QUANTITY	
		APPLIC	MEASURED CONCENTR	EMISSION FACTOR	SECTION/FACILITY	T (Tons) per Year	kg (kg) per Year	g (g) per Year	lb (lb) per Year
PM10 (Particulate Matter)	None	None	None	None	None	0.00	0.00	0.00	0.00
**Data is only recorded on the Pollutant Release Statement when used for the waste types									
SECTION C - WASHING POLLUTANT EMISSIONS (to be reported in separate column)									
POLUTANT	RELEASES TO AIR	METHOD			PROCESS OR UNIT OPERATIONS WITH SECTION NUMBER			QUANTITY	
		APPLIC	MEASURED CONCENTR	EMISSION FACTOR	SECTION/FACILITY	T (Tons) per Year	kg (kg) per Year	g (g) per Year	lb (lb) per Year
PM10 (Particulate Matter)	None	None	None	None	None	0.00	0.00	0.00	0.00
**Data is only recorded on the Pollutant Release Statement when used for the waste types									

**Additional Data Requested from Landfill operators**

For the purpose of the National Inventory on Greenhouse Gases, landfill operators are requested to provide a summary of the methane gas generated based on material on their facilities to enable us to calculate the figures for the total methane generated. Operators should only report from the methane (CH<sub>4</sub>) production to be undertaken on a regular (weekly) basis and not on an irregular basis. Please complete the table below.

**Landfill**  
Dingle Civic Amenity Centre

Please enter auxiliary data in the quantity of methane (Tons) and (kg) entered

T (Tons) per Year	MCH4	Methane Gas		Facility Total Capacity (kg per Year)
		Methane Code	Designation or Description	
Total methane generated (as per the standard)	0.00			0.00 (Total Filling Capacity)
Methane stored on regular basis	0.00			0.00 (Total Filling Capacity)
Methane stored on irregular basis	0.00			0.00



Sheet: Releases to Water

AER Release Workbook

20/02/2012 14:00

4.2 RELEASE TO WATER

SECTION A - SELECT SPECIFIC POLLUTANTS

POLLUTANT		RELEASED TO WATER		Please enter all quantities in this column in kg			
W0225-01	W0225-02	W0225-03	W0225-04	W0225-05	W0225-06	W0225-07	W0225-08
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SECTION B - REMAINING WATER POLLUTANTS

POLLUTANT		RELEASED TO WATER		Please enter all quantities in this column in kg			
W0225-01	W0225-02	W0225-03	W0225-04	W0225-05	W0225-06	W0225-07	W0225-08
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SECTION C - REMAINING POLLUTANT BM INDICES (as required by your licence)

POLLUTANT		RELEASED TO WATER		Please enter all quantities in this column in kg			
W0225-01	W0225-02	W0225-03	W0225-04	W0225-05	W0225-06	W0225-07	W0225-08
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Sheet: 'Released to Watercourse' at Dingle

AER Release Worksheet

28/03/2012 10:38

4.2 RELEASES TO WATERCOURSE DESIGNER

[CLICK HERE FOR MORE INFORMATION](#)

Project: W0225-01 (Dingle Civic Amenity Site) - Stage 2 (Site Remediation) - Design of Treatment - W0225-01-01-01 (01)

02/03/2012 10:38

SECTION 1 - PWR POLLUTANTS

APPROXIMATE YEARLY TOTALS OF POLLUTANTS CAPTURED FOR MULTIMEDIA TREATMENT OF SEWAGE				APPROXIMATE YEARLY TOTALS OF POLLUTANTS RELEASED TO WATERCOURSE			
POLLUTANT				QUALITY			
Discharge to:	Volume	mg/L	mg/d	mg/d	mg/d	mg/d	mg/d

\*\*Taken as per the modelling on the Pollution Release Database (D) with the default factor

SECTION 2 - REMAINING POLLUTANT RESIDUES (as defined in page 11/12/13)

APPROXIMATE YEARLY TOTALS OF POLLUTANTS CAPTURED FOR MULTIMEDIA TREATMENT OF SEWAGE				APPROXIMATE YEARLY TOTALS OF POLLUTANTS RELEASED TO WATERCOURSE			
POLLUTANT				QUALITY			
Discharge to:	Volume	mg/L	mg/d	mg/d	mg/d	mg/d	mg/d

\*\*Taken as per the modelling on the Pollution Release Database (D) with the default factor

Link to previous years' emissions data

Page 1 of 1

Sheet : Releases to Land

AER Returns Workbook

06/05/2015 15:0

4.4 RELEASES TO LAND

[Link to spreadsheet version of this table](#)

[PRT08 - W0225] Facility Name : Dingle Civic Amenity Centre | Filings : W0225 AER PRT8 2011 V1.xls | Return Year : 2011

06/05/2015 15:05

SECTION A : PRT8 POLLUTANTS

POLLUTANT		RELEASES TO LAND		Please enter all quantities in this section in KGs		
NAME	SYMBOL	MG/CL	METHOD	Discharge Point 1	T (Total) KG/Year	A (Accidental) KG/Year
Oil, Waste 3	Oil	0.0	Landfill		0.0	0.0

\* Data is entry which falling on the Polluted Area (Column 2) then tick the state button

SECTION B : REMAINING POLLUTANT ERRORS (as required by your Licence)

POLLUTANT		RELEASES TO LAND		Please enter all quantities in this section in KGs		
NAME	SYMBOL	MG/CL	METHOD	Discharge Point 1	T (Total) KG/Year	A (Accidental) KG/Year
Pollutant 1a	None	0.0	Landfill		0.0	0.0

\* Data is entry which falling on the Polluted Area (Column 2) then tick the state button

Area : Treatment/Transfer of Waste

ARF Return/Receipts

2020/21 00 0

2. OTHER TREATMENT & OFFSITE TRANSFER OF WASTE (ARF for W0225-01 only. Does not include other ARFs. W0225-01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100)

2020/21 00 0

Please enter all quantities in this column in Tons

Transfer Description	European Waste Code	Material	Quantity (Tons per Year)	Description of Waste	Waste Treatment Category	Material Used		Location of Treatment	ARF/ARF No. (ARF No. if not applicable)	ARF/ARF No. (ARF No. if not applicable)	ARF/ARF No. (ARF No. if not applicable)	ARF/ARF No. (ARF No. if not applicable)
						ARF/ARF No. (ARF No. if not applicable)	ARF/ARF No. (ARF No. if not applicable)					
Wiltshire County	20 01 38	No	14.24	Woolly waste (wool and woolen waste)	02	M	Wiltshire	Offsite in Ireland	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
Wiltshire County	15 01 38	No	22.75	metal packaging	02	M	Wiltshire	Offsite in Ireland	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
Wiltshire County	15 01 01	No	1528	paper and cardboard packaging	02	M	Wiltshire	Offsite in Ireland	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
Wiltshire County	20 01 01	No	21.74	plastic and cardboard	02	M	Wiltshire	Offsite in Ireland	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
Wiltshire County	15 01 07	No	11.53	glass packaging	02	M	Wiltshire	Offsite in Ireland	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
Wiltshire County	15 01 04	No	1.28	metal packaging	02	M	Wiltshire	Offsite in Ireland	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
Wiltshire County	20 01 40	No	20.02	metal	02	M	Wiltshire	Offsite in Ireland	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
Wiltshire County	15 01 02	No	5.75	plastic packaging	02	M	Wiltshire	Offsite in Ireland	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
Wiltshire County	20 01 11	No	4.55	textiles	02	M	Wiltshire	Offsite in Ireland	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
Wiltshire County	20 01 38	No	24.18	wood other than that removed in 20 01 37	02	M	Wiltshire	Offsite in Ireland	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
To Other Counties	20 01 34	No	1.12	metal and accessories other than those removed in 20 01 33	02	M	Wiltshire	Offsite	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
Wiltshire County	20 01 08	No	0.18	various wastes not otherwise specified	02	M	Wiltshire	Offsite in Ireland	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
To Other Counties	20 01 21	Yes	1.22	paint, oils, greases and solvents containing hazardous substances	02	M	Wiltshire	Offsite	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
To Other Counties	15 01 11	Yes	127	Refrigerant gas (containing CFC, HCFC, HFC, PFC, etc.)	02	M	Wiltshire	Offsite	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
To Other Counties	15 01 04	No	4.75	metal and accessories other than those removed in 20 01 33 and 20 01 37	02	M	Wiltshire	Offsite	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
Wiltshire County	20 01 38	Yes	5.07	Refrigerant gas (containing CFC, HCFC, HFC, PFC, etc.)	02	M	Wiltshire	Offsite in Ireland	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
To Other Counties	20 01 38	No	15.73	metal and accessories other than those removed in 20 01 33 and 20 01 37	02	M	Wiltshire	Offsite	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
Wiltshire County	17 01 07	No	0.2	oil	01	M	Wiltshire	Offsite in Ireland	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
To Other Counties	20 01 12	Yes	0.50	metal and accessories other than those removed in 20 01 33 and 20 01 37	02	M	Wiltshire	Offsite	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101
Wiltshire County	20 01 01	No	218.02	various wastes not otherwise specified	02	M	Wiltshire	Offsite in Ireland	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101	Wiltshire Waste Depot/W021101

